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(i) MOLECULE TYPE: DNA (oligonucleotide)

(x i) SEQUENCE DESCRIPTION: SEQ ID NO:62:

ATGTGGAAAA TCTCTAGCAG GCTGCAGGTC GAC

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(2) INFORMATION FOR SEQ ID NO:63:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(i i) MOLECULE TYPE: DNA (oligonucleotide)

(x i) SEQUENCE DESCRIPTION: SEQ ID NO:63:

TGCTAGAGAT TTTCCACAT

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We claim:

1. An isolated polynucleotide encoding a Fen-1 polypeptide as shown in SEQ ID NO 1 or SEQ ID NO 3, or a fragment of said polypeptide having flap endonucleolytic cleavage activity. 25

2. An isolated polynucleotide, wherein said polynucleotide comprises a nucleotide sequence selected from the group of sequences consisting of SEQ. ID. NOS: 29-51.

3. An isolated polynucleotide of claim 2, wherein said polynucleotide comprises the sequence of SEQ. ID. NO:28.

4. A host cell comprising the polynucleotide of claim 1.

5. A non-mammalian host cell comprising a mammalian FEN-1 polypeptide of claim 1.

6. The polynucleotide of claim 1 that is full-length.

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